

Crystal Data: Hexagonal. *Point Group:* $\bar{3}$. As prismatic crystals to 1.5 mm, displaying {10 $\bar{1}$ 0}.

Physical Properties: *Cleavage:* Poor on {10 $\bar{1}$ 0} and {0001}. *Fracture:* Uneven.
Tenacity: Brittle. *Hardness* = 4.5-5.5 *D(meas.)* = n.d. *D(calc.)* = 2.51

Optical Properties: Translucent. *Color:* Light rose. *Streak:* White. *Luster:* Vitreous.
Optical Class: Uniaxial (-). ω = 1.694(1) ε = 1.669(1)
Anomalously biaxial: $2V(\text{meas.}) = 10\text{-}20^\circ$ *Dispersion:* $r > v$.

Cell Data: *Space Group:* $P\bar{3}$. $a = 9.9097(6)$ $c = 7.4026(6)$ $Z = 1$

X-ray Powder Pattern: Kuannersuit Plateau, Ilímaussaq alkaline complex, South Greenland.
2.969 (100), 1.965 (80), 2.867 (60), 1.863 (60), 4.077 (40), 3.693 (40), 2.212 (40)

Chemistry:	(1)		(1)
Na ₂ O	3.9	Sm ₂ O ₃	0.5
K ₂ O	0.09	ThO ₂	0.3
CaO	0.03	SiO ₂	0.5
SrO	0.9	P ₂ O ₅	25.1
BaO	50.6	SO ₃	0.04
La ₂ O ₃	2.4	F	1.9
Ce ₂ O ₃	9.6	Cl	1.2
Pr ₂ O ₃	0.12	- O = F + Cl	1.10
Nd ₂ O ₃	4.3	Total	100.38

(1) Kuannersuit Plateau, Ilímaussaq alkaline complex, South Greenland; average of 3 electron microprobe analyses; corresponding to (Ba_{5.61}Sr_{0.15}K_{0.03}) $\Sigma=5.79$ Na_{2.14}(Ce_{1.00}Nd_{0.43}La_{0.25}Sm_{0.05}Th_{0.02}Pr_{0.01}) $\Sigma=1.76$ (P_{6.02}Si_{0.14}) $\Sigma=6.16$ O_{23.72}(F_{1.70}Cl_{0.58}) $\Sigma=2.28$.

Mineral Group: Apatite supergroup, belovite group.

Occurrence: In albite-lined cavities in veins that cut augite syenite in an alkaline igneous complex.

Association: Aegirine, analcime, beryllite, chkalovite, galena, gmelinite, gonnardite, lovdarite, nabesite, neptunite, pectolite, polyolithionite, pyrochlore, sphalerite, tugtupite, albite.

Distribution: From the Kuannersuit Plateau, Ilímaussaq alkaline complex, South Greenland.

Name: For the locality that produced the first specimens, the *Kuannersuit* Plateau, and a suffix for the dominant rare earth element, *Cesium*.

Type Material: Geological Museum, Copenhagen, Denmark (GM 2003.42) and at the Geological Faculty, Moscow State University, Moscow, Russia (II-1016).

References: (1) Friis, H., T. Balić-Žunić, I.V. Pekov, and O.V. Petersen (2004) Kuannersuite-(Ce), Ba₆Na₂REE₂(PO₄)₆FCl, a new member of the apatite group, from the Ilímaussaq alkaline complex, South Greenland: description and crystal chemistry. *Can. Mineral.*, 42, 95-106. (2) (2004) *Amer. Mineral.*, 89, 1828 (abs. ref. 1).